ABSTRACT OF THE DISCLOSURE

A computer-implemented method and system includes capabilities for receiving suspect item definitions (e.g. item serial numbers, lot numbers, operation identifiers, date ranges, etc.) into a computer database, detecting item identifiers in a manufacturing or assembly process, and comparing the item identifiers with the suspect item definitions. If the detected item identifier falls within one of the suspect item definitions, the item is automatically isolated or otherwise rejected from manufacturing or assembly process. Other aspects of the invention include functionality for determining the location of suspect items. Locations may be inferred and off-site. Another aspect includes automatically modifying the manufacturing or assembly process to bypass one or more suspect manufacturing or assembly operations. A plurality of user interfaces are provided for defining, locating and managing suspect items. Suspect item definitions and location information may by broadcast or otherwise communicated to distributed locations (e.g. holding areas, warehouses, etc.).